

ARG55609 anti-SNX3 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SNX3
Tested Reactivity	Hu, Ms
Predict Reactivity	Bov, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SNX3
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 78-105 (Center) of Human SNX3.
Conjugation	Un-conjugated
Alternate Names	Protein SDP3; SDP3; Sorting nexin-3; Grd19; MCOPS8

Application Instructions

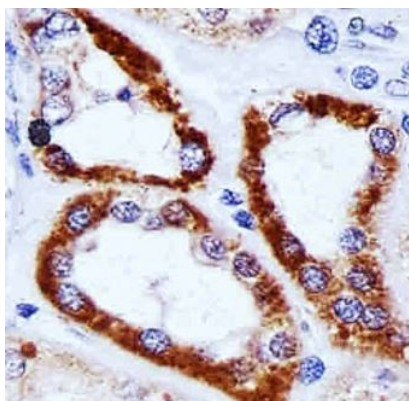
Application table	Application	Dilution
	IHC-P	1:25
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	THP-1	

Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

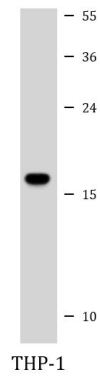
Database links	GeneID: 8724 Human Swiss-port # O60493 Human
Gene Symbol	SNX3
Gene Full Name	sorting nexin 3
Background	This gene encodes a member of the sorting nexin family. Members of this family contain a phox (PX) domain, which is a phosphoinositide binding domain, and are involved in intracellular trafficking. This protein does not contain a coiled coil region, like most family members. This protein interacts with phosphatidylinositol-3-phosphate, and is involved in protein trafficking. A pseudogene of this gene is present on the sex chromosomes. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2014]
Function	Phosphoinositide-binding protein required for multivesicular body formation. Specifically binds phosphatidylinositol 3-phosphate (PtdIns(P3)). Also can bind phosphatidylinositol 4-phosphate (PtdIns(P4)), phosphatidylinositol 5-phosphate (PtdIns(P5)) and phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) (By similarity). Plays a role in protein transport between cellular compartments. Together with RAB7A facilitates endosome membrane association of the retromer cargo-selective subcomplex (CSC/VPS). May in part act as component of the SNX3-retromer complex which mediates the retrograde endosome-to-TGN transport of WLS distinct from the SNX-BAR retromer pathway. Promotes stability and cell surface expression of epithelial sodium channel (ENAC) subunits SCNN1A and SCNN1G (By similarity). Not involved in EGFR degradation. Involved in the regulation of phagocytosis in dendritic cells possibly by regulating EEA1 recruitment to the nascent phagosomes. Involved in iron homeostasis through regulation of endocytic recycling of the transferrin receptor TFRC presumably by delivering the transferrin:transferrin receptor complex to recycling endosomes; the function may involve the CSC retromer subcomplex (By similarity). In the case of Salmonella enterica infection plays a role in maturation of the Salmonella-containing vacuole (SCV) and promotes recruitment of LAMP1 to SCVs. [UniProt]
Research Area	Signaling Transduction antibody
Calculated Mw	19 kDa
PTM	Ubiquitinated, leading to its proteasomal degradation. Deubiquitinated by USP10 (By similarity).
Cellular Localization	Cytoplasmic vesicle, Endosome

Images



ARG55609 anti-SNX3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human kidney tissue stained with ARG55609 anti-SNX3 antibody at 1:25 dilution.



ARG55609 anti-SNX3 antibody WB image

Western blot: 35 µg of THP-1 cell lysate stained with ARG55609 anti-SNX3 antibody at 1:1000 dilution.